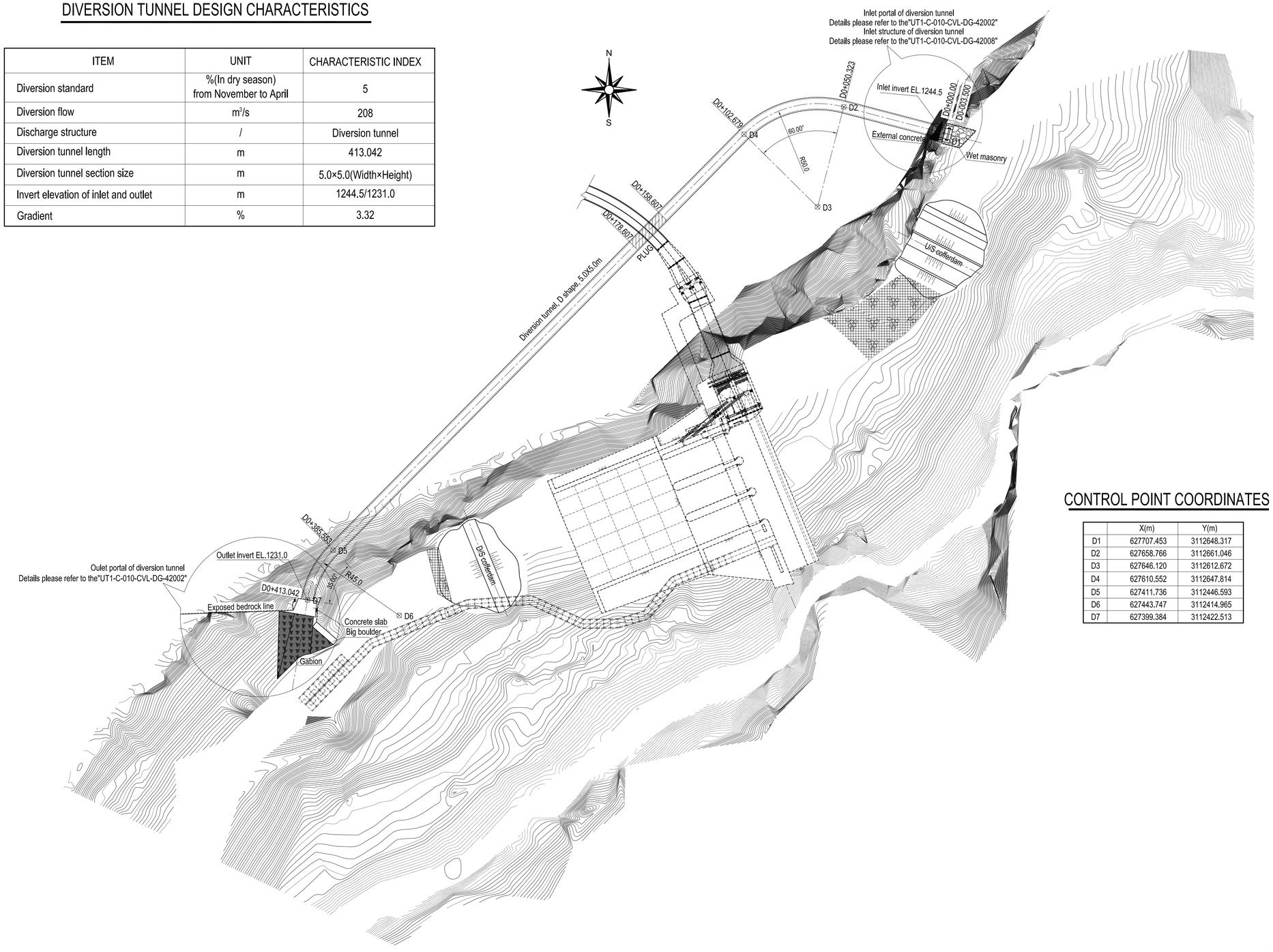
GENGRAL PLAN OF DIVERSION TUNNEL

SCALE 1:1000



1:1000 0 10 20 30 40 50m

DIVERSION TUNNEL DESIGN CHARACTERISTICS

ITEM	UNIT	CHARACTERISTIC INDEX
Diversion standard	%(In dry season) from November to April	5
Diversion flow	m^3/s	208
Discharge structure	/	Diversion tunnel
Diversion tunnel length	m	413.042
Diversion tunnel section size	m	5.0×5.0(Width×Height)
Invert elevation of inlet and outlet	m	1244.5/1231.0
Gradient	%	3.32

CONTROL POINT COORDINATES

	X(m)	Y(m)
D1	627707.453	3112648.317
D2	627658.766	3112661.046
D3	627646.120	3112612.672
D4	627610.552	3112647.814
D5	627411.736	3112446.593
D6	627443.747	3112414.965
D7	627399.384	3112422.513

NOTE

1.Elavations, chainages are measured in meter, dimensions are in millimeter unless otherwise stated.
2.Structures shown on the drawing with the exception of diversion tunnel are sketches only.
3.The diversion structure design characteristics table is tentative.

REFERENCE DRAWINGS

UT1-C-010-CVL-DG-42002	EXCAVATION AND SUPPORT DRAWING OF INLET AND OUTLET PORTAL OF DIVERSION TUNNEL
UT1-C-010-CVL-DG-42003	EXCAVAITON AND INITIAL SUPPORT DRAWING OF DIVERSION TUNNEL

SYMBOL AND LEGEND

FOR APPROVAL

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REV. NO.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0D	29.MAR,2022	As RN-0082	DONG Z.Z.	K.J.KIM	Y.S.SON
0C	20.JAN,2022	As RN-0042	DONG Z.Z.	K.J.KIM	Y.S.SON
0B	31.DEC,2021	Second issue	DONG Z.Z.	K.J.KIM	Y.S.SON
0A	25.DEC,2021	First issue	DONG Z.Z.	K.J.KIM	Y.S.SON

PROJECT TITLE

Upper Trishuli-1 HEP (216MW)

OWNER

NWEDC NEPAL WATER AND ENERGY DEVELOPMENT CO. PVT.LTD.

OWNER'S ENGINEER

TRACTEBEL ENGIE jade CONSULT

CONTRACTOR

DOOSAN Doosan Heavy Industries & Construction

DRAWING TITLE

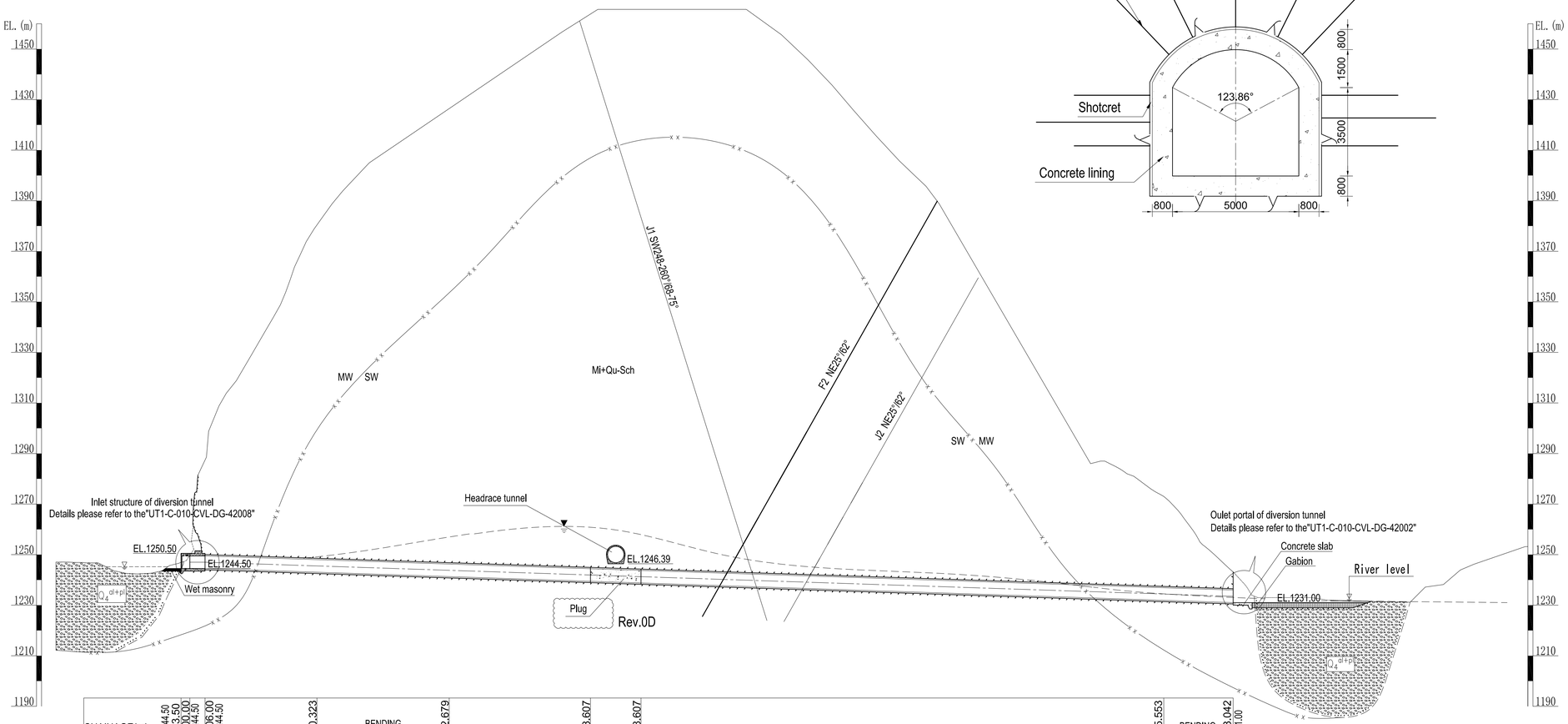
DIVERSION FACILITIES
ARRANGEMENT DRAWING OF DIVERSION TUNNEL(1/2)

INDEX	DRAWING NUMBER	SHEET NO.	REV. NO.
	UT1-C-010-CVL-DG-42001-1	1 OF 2	0D

A1 (594 x 841 MM)

LONGITUDINAL PROFILE OF DIVERSION TUNNEL

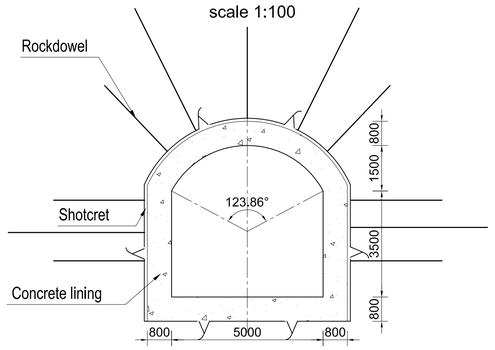
SCALE 1:1000



CHAINAGE(m)	EL.1244.50 D0+003.50	D0+000.00 EL.1244.50	D0+006.00 EL.1244.50	D0+050.323	BENDING SECTION	D0+102.679	D0+158.607	PLUG	D0+178.607	D0+385.553	BENDING SECTION	D0+413.042 EL.1231.00
Gradient	0%			3.32%								
Rock class type	III			III~II			IV		III		IV	
Overburden thickness(m)				149.60			222.37	218.22		64.60		6.6

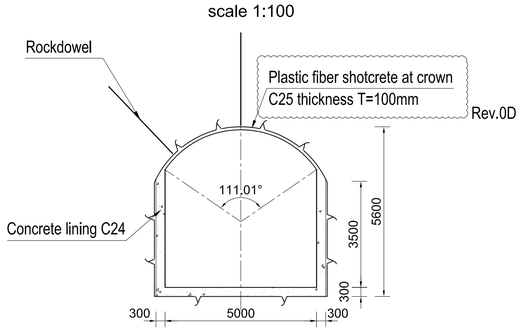
TYPICAL CROSS SECTION OF INTERSECTION OF HEADRACE AND DIVERSION TUNNEL

scale 1:100



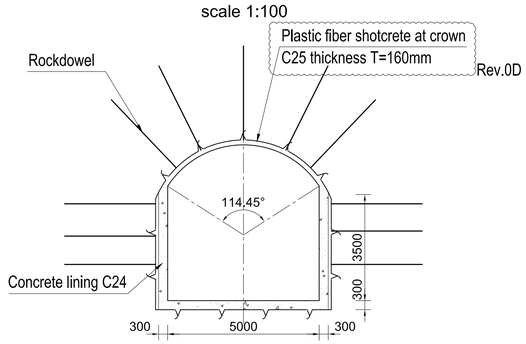
TYPICAL CROSS SECTION OF II

scale 1:100



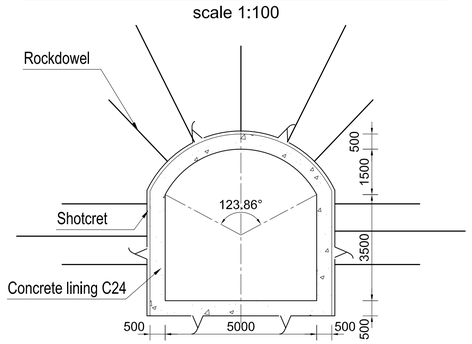
TYPICAL CROSS SECTION OF III

scale 1:100



TYPICAL CROSS SECTION OF IV

scale 1:100



1:1000 0 10 20 30 40 50m

1:100 0 1 2 3 4 5m

NOTE

1. Elavations, chainages are measured in meter, dimensions are in millimeter unless otherwise stated.
2. Details of surrounding rock support and lining of each RMG refer to subsequent drawings.
3. The distribution of rock classes is tentative.

REFERENCE DRAWINGS

UT1-C-010-CVL-DG-42002	EXCAVATION AND SUPPORT DRAWING OF INLET AND OUTLET PORTAL OF DIVERSION TUNNEL
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DIVERSION FACILITIES
ARRANGEMENT DRAWING OF DIVERSION TUNNEL(2/2)

INDEX	DRAWING NUMBER	SHEET NO.	REV. NO.
	UT1-C-010-CVL-DG-42001-2	2 OF 2	0D

A1 (594 x 841 MM)